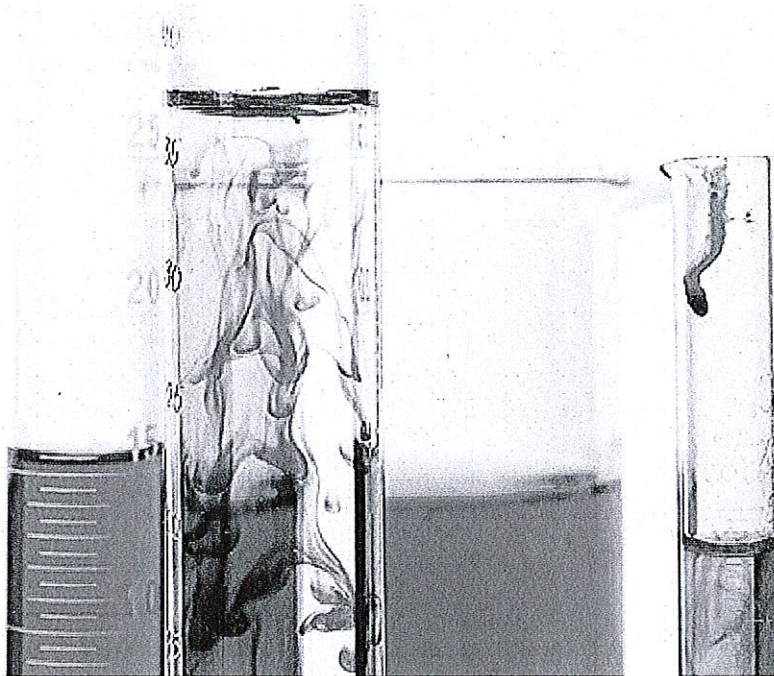


Science Fair Research 2015-2016



Graduated Cylanders by Horia Varla, Flickr Creative Commons

Contents

1. Research Plan
2. Bibliography Worksheet
3. Science Fair Notes Graphic Organizer

Name: _____
Class: _____
Date: _____

Science Fair Background Research Plan -- Keywords

Step 1: Plan your search terms.

When you search into a search engine, Science in Context, or Encyclopedia Britannica, you often need to use keywords or short phrases instead of full questions to get the best results. Planning them ahead of time will help you work faster and with less frustration.

1. My testable question is:

2. List keywords from the question on the lines below. Remember to cross out words from your testable question above to get the most important words.

- Independent variable: _____
- Dependent variable: _____
- Other important words: _____
- Synonyms (words that mean the same thing as the other keywords: _____

3. Identify any science terms (Ex. Evaporation, Filtration, Citric Acid, Force) that apply to your project. Think about things you have learned in science class that related to your project.

1. _____
2. _____
3. _____

Step 2: To know what you need to find for your research, you will need to plan a set of questions to find the answer to in your sources. Creating a short outline below will make your research more organized and effective, and it will also give you a plan for writing your paper. Remember that starting questions with the 5Ws/ H writes the strongest questions. "Why?" and "How?" questions are especially effective for coming up with big ideas. ***Use a pencil! You will make changes!***

Background Research Outline

I. Introduction -- What is your experiment trying to prove? (Think about your hypothesis!)

II. Subtopic 1: History and background

Question 1: _____

Question 2: _____

Question 3 (optional): _____

III. Subtopic 2: Science "Big Ideas"

Question 1: _____

Question 2: _____

Question 3 (optional): _____

IV. Subtopic 3: Impact of the experiment in society

Question 1: _____

Question 2: _____

Question 3 (optional): _____

VI. Conclusion -- What can others learn from reading about my experiment?

Date: _____

Directions: Use your own words to describe facts and ideas about your science fair project. Complete a new note sheet for each source (at least three note sheets total). Use a dash (-) or a bullet point to start each new note and use complete sentences in your notes to make them clear.

Source Title:	What is the source about?	Page numbers: (for books only)
Notes:		

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Date: _____

Directions: Use your own words to describe facts and ideas about your science fair project. Complete a new note sheet for each source (at least three note sheets total). Use a dash (-) or a bullet point to start each new note and use complete sentences in your notes to make them clear.

[illegible]

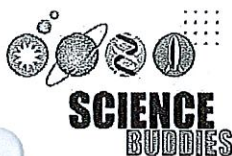
This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

Date: _____

Directions: Use your own words to describe facts and ideas about your science fair project. Complete a new note sheet for each source (at least three note sheets total). Use a dash (-) or a bullet point to start each new note and use complete sentences in your notes to make them clear.

[illegible]

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



Bibliography Worksheet

Note: You won't fill in every item depending on the type of source. Name: Leo Discipulus

This source is a: <input checked="" type="checkbox"/> Book <input type="checkbox"/> Magazine <input type="checkbox"/> Newspaper <input type="checkbox"/> Website <input type="checkbox"/> Other _____		
Author's Last Name	<u>Conda</u>	First Name <u>Anna</u> Middle Initial _____
Date Published	<u>2008</u>	Publication/Website Title <u>Snakes of the World</u>
Title of Article (periodicals, encyclopedias, websites)		
Place Published (books only)	<u>New York, NY</u>	Publisher (books only) <u>Penguin</u> Editor (if applicable) _____
Edition (if applicable)	Volume Number (periodicals or encyclopedias)	Page Number(s)
Website is a <input type="checkbox"/> Company <input type="checkbox"/> Organization <input type="checkbox"/> Government <input type="checkbox"/> Newspaper/Magazine <input type="checkbox"/> Other _____		
The URL is http:// (websites only)		Last Date of Access (websites only)
This source is a: <input type="checkbox"/> Book <input type="checkbox"/> Magazine <input type="checkbox"/> Newspaper <input checked="" type="checkbox"/> Website <input type="checkbox"/> Other _____		
Author's Last Name	<u>Zapato</u>	First Name <u>Lyle</u> Middle Initial _____
Date Published	<u>2013-02-04</u>	Publication/Website Title <u>Save the Pacific Northwest Tree Octopus</u>
Title of Article (periodicals, encyclopedias, websites) <u>Tree Octopus Sightings</u>		
Place Published (books only)	Publisher (books only)	Editor (if applicable)
Edition (if applicable)	Volume Number (periodicals or encyclopedias)	Page Number(s)
Website is a <input type="checkbox"/> Company <input type="checkbox"/> Organization <input type="checkbox"/> Government <input type="checkbox"/> Newspaper/Magazine <input checked="" type="checkbox"/> Other _____		
The URL is http:// <u>http://zapatopi.net/treeoctopus/sightings.html</u> (websites only)		Last Date of Access (websites only) <u>1/8/2014</u>
This source is a: <input type="checkbox"/> Book <input type="checkbox"/> Magazine <input type="checkbox"/> Newspaper <input type="checkbox"/> Website <input type="checkbox"/> Other _____		
Author's Last Name	First Name	Middle Initial
Date Published	Publication/Website Title	
Title of Article (periodicals, encyclopedias, websites)		
Place Published (books only)	Publisher (books only)	Editor (if applicable)
Edition (if applicable)	Volume Number (periodicals or encyclopedias)	Page Number(s)
Website is a <input type="checkbox"/> Company <input type="checkbox"/> Organization <input type="checkbox"/> Government <input type="checkbox"/> Newspaper/Magazine <input type="checkbox"/> Other _____		
The URL is http:// (websites only)		Last Date of Access (websites only)

Copyright © 2007 Kenneth Lafferty Hess Family Charitable Foundation. All rights reserved. <http://www.sciencebuddies.org/>

You may print and distribute up to 200 copies of this document annually, at no charge, for personal and classroom educational use. When printing this document, you may NOT modify it in any way. For any other use, please contact Science Buddies. 2007/02/08



Bibliography Worksheet

Note: You won't fill in every item depending on the type of source. Name: _____

This source is a: <input type="checkbox"/> Book <input type="checkbox"/> Magazine <input type="checkbox"/> Newspaper <input type="checkbox"/> Website <input type="checkbox"/> Other _____		
Author's Last Name	First Name	Middle Initial
Date Published	Publication/Website Title	
Title of Article (periodicals, encyclopedias, websites)		
Place Published (books only)	Publisher (books only)	Editor (if applicable)
Edition (if applicable)	Volume Number (periodicals or encyclopedias)	Page Number(s)
Website is a <input type="checkbox"/> Company <input type="checkbox"/> Organization <input type="checkbox"/> Government <input type="checkbox"/> Newspaper/Magazine <input type="checkbox"/> Other _____		
The URL is http:// (websites only)		Last Date of Access (websites only)
This source is a: <input type="checkbox"/> Book <input type="checkbox"/> Magazine <input type="checkbox"/> Newspaper <input type="checkbox"/> Website <input type="checkbox"/> Other _____		
Author's Last Name	First Name	Middle Initial
Date Published	Publication/Website Title	
Title of Article (periodicals, encyclopedias, websites)		
Place Published (books only)	Publisher (books only)	Editor (if applicable)
Edition (if applicable)	Volume Number (periodicals or encyclopedias)	Page Number(s)
Website is a <input type="checkbox"/> Company <input type="checkbox"/> Organization <input type="checkbox"/> Government <input type="checkbox"/> Newspaper/Magazine <input type="checkbox"/> Other _____		
The URL is http:// (websites only)		Last Date of Access (websites only)
This source is a: <input type="checkbox"/> Book <input type="checkbox"/> Magazine <input type="checkbox"/> Newspaper <input type="checkbox"/> Website <input type="checkbox"/> Other _____		
Author's Last Name	First Name	Middle Initial
Date Published	Publication/Website Title	
Title of Article (periodicals, encyclopedias, websites)		
Place Published (books only)	Publisher (books only)	Editor (if applicable)
Edition (if applicable)	Volume Number (periodicals or encyclopedias)	Page Number(s)
Website is a <input type="checkbox"/> Company <input type="checkbox"/> Organization <input type="checkbox"/> Government <input type="checkbox"/> Newspaper/Magazine <input type="checkbox"/> Other _____		
The URL is http:// (websites only)		Last Date of Access (websites only)

Copyright © 2007 Kenneth Lafferty Hess Family Charitable Foundation. All rights reserved. <http://www.sciencebuddies.org/>

You may print and distribute up to 200 copies of this document annually, at no charge, for personal and classroom educational use. When printing this document, you may NOT modify it in any way. For any other use, please contact Science Buddies. 2007/02/08